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Lon C. Levin
Vice President

PHONE: 703 390-2717
FAX: 703 390-2777
EMAIL: llevin@msvip.com

January 7, 2005

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Federal Communications Commission
Office of Secretary

Via Hand Delivery
Ms. Marlene H. Dortch, Secretary
Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 20554

Re: Mobile Satellite Ventures Subsidiary LLC
Ex Parte Presentation
IB Docket No. 01-185
File No. SAT-MOD-20031118-00333 (ATC application)
File No. SAT-AMD-20031118-00332 (ATC application)
File No. SES-MOD-20031118-01879 (ATC application)

Dear Ms. Dortch:

Mobile Satellite Ventures L.P. ("MSV") hereby files the attached Affidavit from LCC International Inc., a recognized leader in wireless network design, explaining how MSV will always be able to determine the number of base stations and the on-the-air traffic operating on its licensed frequencies both within and outside of the United States at any given time. This Affidavit demonstrates that the Commission can allow MSV to use over 50% of its authorized system-wide co-channel reuse in the United States while ensuring that MSV does not exceed a system-wide co-channel reuse allowance.¹

Please direct any questions regarding this matter to the undersigned.

Very truly yours,


Lon C. Levin

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¹ See MSV, Petition for Partial Reconsideration and Clarification, IB Docket No. 01-185 (July 7, 2003), at 6; Application of Mobile Satellite Ventures Subsidiary LLC, File No. SAT-MOD-20031118-00333, File No. SAT-AMD-20031118-00332, File No. SES-MOD-20031118-01879 (November 18, 2003), at 12, 17.

Ms. Magalie Roman Salas

January 7, 2005

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cc: Donald Abelson
Jim Ball
William Bell
Richard Engelman
Chip Fleming
Howard Griboff
Karl Kensinger
Paul Locke
Kathryn Medley
Robert Nelson
Sean O'More
Roderick Porter
Steve Spaeth
David Strickland
Cassandra Thomas
Thomas Tycz
John Janka, Counsel for Inmarsat

**Affidavit of LCC International Inc. on the
Ability of MSV to Know the Number of ATC Base Stations
Using Its Licensed Frequencies Throughout Its Coverage Area**

1. This affidavit will address how Mobile Satellite Ventures LP ("MSV") will be able to ascertain the number of Ancillary Terrestrial Component ("ATC") base stations and periodic determination of on-the-air traffic that use its licensed frequencies throughout the United States and Canada.
2. We understand, based on information provided to us by MSV, that (a) ATC presently is only authorized in the United States and Canada, (b) as in the United States, ATC in Canada must be integrated under the control of the satellite operator, (c) MSV's hybrid satellite/ATC network will use the same frequencies for the satellite and terrestrial components throughout the United States and Canada, (d) these are the frequencies that MSV and MSV Canada has coordinated under the Mexico City Memorandum of Understanding, (e) MSV's satellite and terrestrial infrastructure will be under the central control of a dynamic radio resource manager that allocates and distributes frequencies between the terrestrial and satellite portions in real time.
3. We also understand, based on information provided to us by MSV, that there will also be a system of switches that are networked together and monitored at a central control point (the Network Operations Center ("NOC")), and the ATC will include many switches, or Mobile Switching Centers ("MSCs"), optimally distributed throughout the United States and Canada. All of these disparate switches may be networked together. The networking may include inter-switch trunks that may be used for intra-network information transfer, call setup and handover

between different components of the system, frequency management, and real-time coordination for satisfying dynamic prioritization and preemption requirements.

4. This entire distributed network of switches may be monitored and managed from a central point of control – the NOC. At the NOC, MSV will be able to obtain the number of base stations and periodic determination of on-the-air traffic using its licensed frequencies both within and outside of the United States.

5. Based on data compiled in real time at the NOC, using this configuration, MSV will be able to provide the FCC upon request with the (i) number of base stations and periodic determination of on-the-air traffic using its licensed frequencies both within and outside of the United States and (ii) the precise locations of those base stations.

LCC INTERNATIONAL, INC.



By: VIKRANT TANNAN

Title: SENIOR TECHNICAL MANAGER